

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>1175</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Kirton Concrete Services Ltd</h3> <p>Issue No: 022 Issue date: 08 November 2011</p>	
	<p>Manor House Station Road Hibaldstow Brigg North Lincolnshire DN20 9EB</p>	<p>Contact: Mr J Burton Tel: +44 (0)1652-656931 Fax: +44 (0)1652-651082 E-Mail: kirtonlab@aol.com Website:</p>
<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FLY ASH FOR CONCRETE (PFA)	<u>Chemical Tests</u>	
	Sulfuric anhydride content	EN 450-1:2007 EN 196-2:2005:clause 8
	Loss on ignition	EN 450-1:2007 EN 196-2:2005: clause7
	Chloride content	EN 450-1:2007 EN 196-2:2005:clause 14
	<u>Mechanical Tests</u>	
	Activity Index (loads from 2 to 200kN)	EN 450-1:2007 EN 196-1:2005
	<u>Physical Tests</u>	
	Water requirement	EN 450-1:2007
	Initial setting time	EN 450-1:2007 EN 196-3:2007
	Soundness	EN 450-1:2007 EN 196-2:2005
	Fineness	EN 451-2:2005
	Particle density	EN 450-1:2007 EN 196-6:1992 National Annex NC



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CEMENT	<u>Chemical Tests</u>	
	Loss on ignition	BS EN 196-2:2005:clause 7
	Gravimetric determination of sulfate	BS EN 196-2:2005:clause 8
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2:2005:clause 9
	Chloride content	BS EN 196-2:2005:clause 14
	Alkali content	BS EN 196-2:2005:clause 17.4.1
	Water-soluble chromium (VI) content	EN 196-10:2006
	<u>Mechanical Tests</u>	
	Compressive strength of reference concrete cubes (loads from 50 to 2000kN)	BS 1881:Part 131:1995
	Compressive strength (loads from 2 to 200kN)	BS EN 196-1:2005 ISO 679:2009 - tested at 20 °C and 27 °C
	<u>Physical Tests</u>	
	Standard consistence	BS EN 196-3:2005
	Setting time	BS EN 196-3:2005
	Soundness	BS EN 196-3:2005
	Fineness - sieving method	BS EN 196-6:1992
	Fineness - air permeability (Blaine) method	BS EN 196-6:1992
Density	BS EN 196-6:1992 National Annex NC	
<u>Sampling</u>		
Preparation of test specimens (standard method)	BS EN 196-1:2005	



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GROUND GRANULATED BLASTFURNACE SLAG for use with Portland cement	<u>Chemical Tests</u>	
	Residue insoluble in hydrochloric acid and sodium carbonate	EN 15167-1:2006 BS EN 196-2:2005:clause 9
	Sulfuric anhydride content	EN 15167-1:2006 BS EN 196-2:2005:clause 8
	Loss on ignition	EN 15167-1:2006 BS EN 196-2:2005:clause 7
	Chloride content	EN 15167-1:2006 BS EN 196-2:2005:clause 14
	<u>Mechanical Tests</u>	
	Activity Index (loads from 2 to 200kN)	EN 15167-1:2006 BS EN 196-1:2005
	<u>Physical Tests</u>	
	Moisture content	EN 15167-1:2006
	Soundness	EN 15167-1:2006 BS EN 196-3:2005
	Initial setting time	EN 15167-1:2006 BS EN 196-3:2005
	Fineness	EN 15167-1:2006 BS EN 196-6:1992
	Particle density	EN 15167-1:2006 BS EN 196-6:1992 National Annex NC
	MASONRY CEMENT	<u>Physical Tests</u>
Consistence - plunger method		BS EN 413-2:2005
Water retention		BS EN 413-2:2005
Air content - pressure method (reference method)		BS EN 413-2:2005



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CONCRETE - fresh	<u>Physical Tests</u> Slump	BS EN 12350-2:2009
	Making and curing specimens for strength tests	BS EN 12390-2:2000
CONCRETE - hardened	<u>Mechanical Tests</u> Compressive strength of cubes - including curing <i>(loads from 50 to 2000kN)</i>	BS EN 12390-3:2009 BS EN 12390-1:2000 BS EN 12390-2:2009
	<u>Physical Tests</u> Density	BS EN 12390-7:2009
END		